

Chapter 2.1-2.4 Quiz Review

Is it a function?

Is it one-to-one?

Domain?

Range?

Mapping

Graph (note sheet)

Set of ordered pairs



$$D: \mathbb{R}$$

$$(-\infty, \infty)$$

$$R: y \geq 2$$

$$[2, +\infty)$$

$$f(x) = 3x^2 + 5x$$

$$f(2) = 3(2)^2 + 5(2)$$

$$12 + 10 = 22$$

standard form $Ax + By = C$
 slope-intercept form $y = mx + b$
 point-slope form

$$y - y_1 = m(x - x_1)$$

Sep 26-9:03 AM

Sep 26-9:05 AM

Graph using intercepts

$$(0, y) \quad (x, 0)$$

Graph using slope and y-intercept

Slope

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

Parallel lines

Same slope

Perpendicular lines

opp. reciprocals

Vertical lines

No slope/undefined

Horizontal lines

$$m = 0$$

Write an equation given certain information

Variation word problems

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Sep 26-9:07 AM